	ID: 051803782	CAS Number: 51803-78-2
	<div>Enlarge Structure</div> <div>Use Structure For Query</div> <div>Use Structure for Similarity</div>	Formula: C13-H12-N2-O5-S

Names and Synonyms**Name of Substance**

- Nimesulide
- Nimesulide [BAN:INN]
- R 805

Synonyms

- 4-Nitro-2-phenoxy-methanesulfonanilide
- Aulin
- BRN 2421175
- EINECS 257-431-4
- Flogovital
- Mesulid
- N-(4-Nitro-2-phenoxyphenyl)methanesulfonamide
- Nimed
- Nimesulida [INN-Spanish]
- Nimesulide
- Nimesulidum [INN-Latin]
- R-805
- Sulidene



Systematic Name

- 4'-Nitro-2'-phenoxy-methanesulfonanilide
- Methanesulfonamide, N-(4-nitro-2-phenoxyphenyl)-(9CI)
- Methanesulfonanilide, 4'-nitro-2'-phenoxy-
- Nimesulide

Classification Codes Classification Code

- Anti-inflammatory agents, non-steroidal
- Cyclooxygenase inhibitors

	<ul style="list-style-type: none">• Drug / Therapeutic Agent• Human Data
Formulas	<u>Molecular Formula</u>
	<ul style="list-style-type: none">• C13-H12-N2-O5-S
Locators	<u>File Locator</u>
	<ul style="list-style-type: none">• AIDSLINE• CANCERLIT• CCRIS• DART/ETIC• EINECS• MEDLINE• MESH• RTECS• TOXLINE• TOXLINE Special
Registry Numbers	<u>CAS Registry Number</u>
	<ul style="list-style-type: none">• 51803-78-2

	Ab ut • Contact • Search	
	National Library of Medicine Specialized Information Services	

TOXLINE Special ▷ Tox. & Env. Health ▷ TOXNET ▷ TOXLINE Special

For chemicals, add synonyms and CAS numbers to search: ☐ Yes ☒ No

◀ Item 13 of 110 ▶

Formulation and evaluation of transdermal preparations of nimesulide gel

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Abstract:

IPA COPYRIGHT: ASHP The effect of polymer concentration on in vitro nimesulide release from carbomer 940 (Carbopol 940) and hydroxypropyl methylcellulose (HPMC) gels and the effect of different concentrations of permeation enhancers such as polysorbate 80 (Tween 80) and sodium lauryl sulfate on drug release were studied; pharmacodynamic studies were also conducted in rats with carrageenan-induced paw edema. Nimesulide gel based on HPMC showed better effects compared with the carbomer gel. Both permeation enhancers significantly improved diffusion patterns. Products were physically stable, but the gel based on HPMC showed slight instability.

Keywords:

Nimesulide
transdermal
gels
Hydroxypropyl methylcellulose
Carbomer 940
Polysorbate 80
absorption enhancers
Sodium lauryl sulfate
Anti-inflammatory agents
nimesulide(Anti-inflammatory agents)
Patches transdermal
Polymers
Diffusion
Absorption
Release
Concentration

Stability
Carbopol 934
Carbomer 934
Tween 80

CAS Registry Numbers:

51803-78-2
51803-78-2
9004-65-3
9003-01-4
9005-65-6
151-21-3

Language: English

International Standard Serial Number: 0012-8872

Coden:

EAPHA

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